



Indian Ocean Marine Heat Wave Advisory Bulletin

Indian National Centre for Ocean Information Services (INCOIS)

Ministry of Earth Science (MoES), Govt. of India

URL: <https://incois.gov.in/oceanservices/mhw/index.jsp>



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Marine Heat wave status over Indian Ocean.

Regions	Spread of Marine Heat Wave (% of Area)			Remarks
	Watch	Alert	Warning	
Arabian Sea	22%	09%	01%	<ul style="list-style-type: none"> • Arabian Sea: Predominantly Watch conditions (22%) with pockets of Alert (9%) and limited Warning (1%) along the west coast of India (Gujarat to Kerala) and Lakshadweep, extending toward Oman—May Impact: Coral reef stress, pelagic fisheries shift, productivity reduction.
Bay of Bengal	26%	08%	01%	<ul style="list-style-type: none"> • Bay of Bengal: Predominantly Watch conditions (26%) with areas of Alert (8%) and limited Warning (1%) along the east coast of India (West Bengal, Odisha, Andhra Pradesh, Tamil Nadu) and extending toward Sri Lanka and Myanmar— May Impact: Coral bleaching risk, reef ecosystem stress, altered plankton productivity.
Southern Indian Ocean	22%	02%	--	<ul style="list-style-type: none"> • Southern Indian Ocean: Predominantly Watch conditions (22%) with minimal Alert (2%) and no Warning zones across the basin—May Impact: declining Open-ocean productivity.
South China Sea	15%	05%	01%	<ul style="list-style-type: none"> • South China Sea: Moderate Watch conditions (15%) with areas of Alert (5%) and limited Warning (1%) across the basin, including coastal zones of Southeast Asia—May Impact: Coral bleaching and reef fish habitat stress.
Red Sea & Gulf of Aden	11%	06%	02%	<ul style="list-style-type: none"> • Red Sea & Gulf of Aden: Moderate Watch conditions (11%) with notable Alert (6%) and some Warning (2%) across reef-bearing zones—May Impact: Localized coral reef stress.
Persian Gulf	03%	02%	02%	<ul style="list-style-type: none"> • Persian Gulf: Limited Watch conditions (3%) with comparable Alert (2%) and Warning (2%) signals across the basin—May Impact: marine ecosystems.

For a brief report on the current Marine Heat Wave bulletin please visit: <https://incois.gov.in/oceanservices/mhw/index.jsp>

For clarifications please contact: webmaster@incois.gov.in

Note on MHW categories level:

- **"Watch":** The anomalous temperature range from 0 to 0.5 degree above the 90 Percentile of daily climatology
- **"Alert":** The anomalous temperature range from 0.5 to 1 degree above 90 Percentile of daily climatology
- **"Warning":** The anomalous temperature range of more than 1degrees above 90 Percentile of daily climatology

Brief Report: Indian Marine Heat Wave Alert Bulletin

Background: The Indian National Centre for Ocean Information Services (INCOIS) is a research organization under the Ministry of Earth Science (MoES) Government of India, has carried out research and development on Marine Heat Wave based on the prolonged anomalous temperature above the 90th percentiles of daily climatology calculated using OISST data over the Indian Ocean including south China sea. The intensity of MHW and its different categories of products such as ‘Watch’ (SST anomaly from 0 to 1^o), ‘Alert’ (1-2) and ‘Warning’ (>2°C) were generated daily and hosted on web-GIS interface (URL: <https://incois.gov.in/oceanservices/mhw/index.jsp>). The study area of this service is divided into six ocean basins (Arabian Sea, Bay of Bengal, Persian Gulf, Red Sea, southern Indian Ocean and South China Sea) and fourteen sectors off the Indian states (Gujarat, Maharashtra, Goa, Karnataka, Kerala, Lakshadweep, South Tamil Nadu, North Tamil Nadu, South Andhra Pradesh, North Andhra Pradesh, Odisha, West Bengal, Andaman and Nicobar Islands) for sectoral analysis. INCOIS also carried out on the intensity of MHW and its impact on Marine ecology such as coral reefs, seagrass, seaweeds, fishery etc. with their adverse impact on biodiversity and species shifting due to future climate change.

Based on daily MHW advisories of the past seven days, a weekly summary report was generated and presented in the form of a bulletin comprising a summary of the MHW status in each ocean basin. This will provide an overview of the MHW status in different ocean basins that help stockholders such as ecologists, fishermen, coastal managers, tourists, ocean researchers, etc.